

ABSTRACT OF THE DISCLOSURE

A track jump apparatus for accessing an optical record medium and the position detection method thereof. The track jump apparatus moves the light spots of the laser beam from the current track to the object track. The track cross velocity and position are stably and precisely controlled during the track jump operation. When pulling in, the track cross velocity is controlled within the control band of the track servo loop, and the stability of the track servo loop is not affected. With track position detection, the apparatus adopts a hybrid track detection method, which generates the track position according to the linear area of a tracking error signal and a focus sum signal.

10